

PATENT APPLICATION: US/10/046,433

DATE: 01/28/2002 TIME: 13:44:34

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53 Leu Pro Leu Gln Thr Trp His Val Cys Arg Gln Ala Gly Leu Leu Phe 35 30 56 ctg caa act ttg ccc agc aac tct tat tca aat aaa gga gaa act tct 198 57 Leu Gln Thr Leu Pro Ser Asn Ser Tyr Ser Asn Lys Gly Glu Thr Ser 50 45 246

60 tgc cac cag tgt gac cct gac aaa tac tca gag aaa gga tct tct tcc 61 Cys His Gln Cys Asp Pro Asp Lys Tyr Ser Glu Lys Gly Ser Ser Ser 65 60

64 tgt aac gtg cgc cca gct tgc aca gac aaa gat tat ttc tac aca cac 294

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66			75					80				at a	ato		-	a to	αα	qc	С	342
68	acg	gcc	tgc	gat	gco	c aac	gga	gag	acc	ı Ca ∽ Cl	n T	. 611	Met	TV:	r Lv	s T	rp	Āl	a	
69	Thr	Ala	Cys	Asp	Ala	a Asi	n Gly	GIU	t Tn.	r Gi	.11 1	Jeu	100	- 1						
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72	aag	ccg	aaa	ato	tg.	t ag	c gag	ggad	CC	L ga	19 9	717	Δla	Va	1 Lv	s L	eu	Pr	0	
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74	105					11	U					+40	220	CC	аαс	ic t	tc	tt	С	438
76	gcc	tct	ggt	gt	g aa	g ac	c ca	c tgo	- 00	a CC	, C	Cve	Acn	Pr	o Gl	v P	he	Ph	.e	
77	Ala	Ser	Gly	va:	l Ly	s Th	r Hi	з Су	5 P.	11	30	СУЗ	ASII		0 0-	1	35			
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80	aaa	acc	aac	aa	c ag	c ac	c tg	c ca	g cc	0 0	y C (Dro	TTTT	. 99 . 61	v Se	or T	vr	Se	r	
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84	aat	ggc	tca	ı ga	c tg	t ac	c cg	c tg	C CC	t go	ca	999	Thr	. ga . cl	11 D	ro A	la	Va	1	
85	Asn	Gly	Sei	As	р Су	s Th	r Ar	g Cy	SPI	O A.	ıa ı	СТА	1111	16						
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88	gga	ttt	gaa	a ta	c aa	a tg	ıg tg	g aa	c ac	g c	tg	D-0	mb.	ι αα	n M	et G	:111	ጥነ	nr	
89	Gly	Phe	: Glu	ı Ту	r Ly	s Tr	p Tr	p As	n Tr	ır L	eu	PIO	180)11 17					
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92	acc	gtt	ct:	c ag	t go	ıg at	c aa	c tt	c ga	ig L	ac	aay	999	· Ma	יש לב	hr (;]v	Ti	מי	
93	Thr	· Val	Le	u Se	r Gl	-y I]	Le As	n Pn	e GJ	Lu T	λī	195	GI	y Mc	, L 1		-1		00	
94	185	5				19	90			~	a+	137		a m	rc t	ca d	тас			678
96	gag	gt	ggc	t gg	rt ga	at ca	ac at	t ta	.c ac	ca y	12	315	. 99°	μ 9. π Δ]	la S	er 1	Asp	As	sn	
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231 232 gat ttg act cag tgc cgc tga agacatcetc aggaggecca gacatggacc 2313 232 gat ttg act cag tgc cgc tga agacatcetc aggaggecca gacatggacc 2313 233 Asp Leu Thr Gln Cys Arg 234 745 750 236 tgtgagagge actgectgec teacetgect ceteacettg catageacet ttgcaagect 2373 238 geggegattt gggtgecage atcetgeaac acceactget ggaaatetet teattgtgge 2433 240 ettateagat gtttgaattt eagatettt tttatagagt acceaaacee teetttetge 2493 242 ttgeetcaaa eetgecaaat ataceeacae tttgttgta aattaaaaaa aaaaaaaaaa 2553 244 a 2554 247 <210> SEQ ID NO: 2 248 <211> LENGTH: 750 249 <212> TYPE: PRT 250 <213> ORGANISM: Homo sapiens 252 <400> SEQUENCE: 2 253 Met Asp Gln Ser Thr Gln Ala Cys Ala Gly Glu Lys His Cys His Asn 254 1 5 15 256 Arg Gly Gly Leu His Phe Arg Met Leu Pro Leu Gln Thr Trp His Val 257 20 20 259 Cys Arg Gln Ala Gly Leu Leu Phe Leu Gln Thr Leu Pro Ser Asn Ser 260 35 40 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50 55 60	22	9 His	Ser	Leu	Gly	Arg	Ser	Asn	His	Leu	Pro	Pro	Arg	GTĀ	ьeu	ьеи	Mec	
232 gat ttg act cag tge cgc tga agacatecte aggaggassa gasassa salassa as leu Thr Gln Cys Arg 234 745 750 236 tgtgagaggc actgectgec teacetgect ecteacettg catageacet ttgeaageet 2373 238 geggegattt gggtgeeage atcetgeaae acceactget ggaaatetet teattgtgge 2433 240 ettateagat gtttgaattt eagatettt tttatagagt acceaaacee teettetge 2493 242 ttgeeteaaa ectgeeaaat ataceeaeae tttgttgta aattaaaaaa aaaaaaaaaa 2553 244 a 2554 247 <210> SEQ ID NO: 2 248 <211> LENGTH: 750 249 <212> TYPE: PRT 250 <213> ORGANISM: Homo sapiens 252 <400> SEQUENCE: 2 253 Met Asp Gln Ser Thr Gln Ala Cys Ala Gly Glu Lys His Cys His Asn 254 1 5 10 256 Arg Gly Gly Leu His Phe Arg Met Leu Pro Leu Gln Thr Trp His Val 257 20 25 30 259 Cys Arg Gln Ala Gly Leu Leu Phe Leu Gln Thr Leu Pro Ser Asn Ser 260 35 40 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50 55 60	23	0	730								_4_				anat	aaac	C	2313
234 745 750 236 tgtgagagge actgectgee teacetgeet ecteacettg catageacet ttgeaageet 2373 238 geggegattt gggtgecage atcetgeaae acceaetget ggaaatetet teattgtgge 2433 240 ettateagat gtttgaattt eagatettt tttatagagt acceaaacee teettetge 2493 242 ttgeeteaaa cetgeeaaat ataceeaeae tttgttgta aattaaaaaa aaaaaaaaa 2553 244 a 2554 247 <210> SEQ ID NO: 2 248 <211> LENGTH: 750 249 <212> TYPE: PRT 250 <213> ORGANISM: Homo sapiens 252 <400> SEQUENCE: 2 253 Met Asp Gln Ser Thr Gln Ala Cys Ala Gly Glu Lys His Cys His Asn 254 1 5 10 15 256 Arg Gly Gly Leu His Phe Arg Met Leu Pro Leu Gln Thr Trp His Val 257 20 25 30 259 Cys Arg Gln Ala Gly Leu Leu Phe Leu Gln Thr Leu Pro Ser Asn Ser 260 35 40 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50	23	2 gat	. ttg	act	cag	tgc	cgc	tga	aga	cate	CLC	ayya	ggcc	ca y	acac	gguo	Ü	
236 tgtgagaggc actgcctgcc tcacctgcct cctcaccttg catagcacct ttgcaagcct 2373 238 gcggcgattt gggtgccagc atcctgcaac acccactgct ggaaatctct tcattgtggc 2433 240 cttatcagat gtttgaattt cagatcttt tttatagagt acccaaaccc tcctttctgc 2493 242 ttgcctcaaa cctgccaaat atacccacac tttgtttgta aattaaaaaa aaaaaaaaaa				Thr	Gin	Cys												
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240 cttatcagat gtttgaattt cagatetttt tttatagagt acceadaced teettetege 2435 242 ttgcctcaaa cctgccaaat atacccacac tttgtttgta aattaaaaaa aaaaaaaaaa	23	6 tgt	.gaga	ggc	acty	agge	77 a	tact	acaa	c ac	ccac	tact	gga	aatc	tct	tcat	tgtggd	2433
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254 1 5 10 17 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	25	2 /10	۱۸ ح	TIOTS	NCE	2									_	•		
254 1 5 10 17 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	25	3 Met	Asp	Glr	ı Sei	Thi	Glr	ı Ala	а Суз	: Ala	Gly	/ Glu	ı Lys	His	Cys	3 H1S	Asn	
257 20 25 30 259 Cys Arg Gln Ala Gly Leu Leu Phe Leu Gln Thr Leu Pro Ser Asn Ser 260 35 40 45 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50 55 60	25	A 1	1				5				T)				1-	,	
257 259 Cys Arg Gln Ala Gly Leu Leu Phe Leu Gln Thr Leu Pro Ser Asn Ser 260 35 40 45 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50 55 60	25	6 Arg	g Gly	g Gly	, Lei	ı His	Phe	e Arg	g Met	. Leu	ı Pro	Let	ı GII	ıTnr	TIL	, HTS	, лат	
260 35 40 45 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 263 50 55 60	25	7			20)	_	_	1			, m L -	л Т ^·	, Dro			Ser	
260 35 40 262 Tyr Ser Asn Lys Gly Glu Thr Ser Cys His Gln Cys Asp Pro Asp Lys 55 60			s Arg			a Gly	Leu	ı Lei	ı Phe	у теп	ı GII	1 1111	. пе	1 510	, 261	. 431	. Der	
263 50 55	26	0		3	· -	- 63	- 61	. թե			, pi	. <u>.</u>	n (***			Asr	Lvs	
					ı Lys	S GI	/ GIL	ı TNI	. sei	. Су) UT;	י פדו	. Cys) 			-1-	
265 Tyr Ser Giu Lys Giy Ser Ser Ser Cys Mon (az may 110 mae 11	26	3	5(J - 07:); Go:	, r Gei	r (***	z Acı	n Vaʻ			Ala	a Cys	s Thr	
	26	э ту:	r se:	r GTI	тпХ;	o GT,	y ser	. 361	. 561	. O1.		,	 :	,		-		

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PATENT APPLICATION: US/10/046,433

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Input Set : A:\PF511P1 seqlisting.txt
Output Set: N:\CRF3\01282002\J046433.raw

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-	271	Thr	Gln	Leu	Met	Tyr	Lys	Trp	Ala	Lys	Pro	Lys	Ile	Cys	Ser	Glu	Asp
- 2	272				100					105					110		
-	274	Leu	Glu	Gly	Ala	Val	Lys	Leu	Pro	Ala	Ser	Gly	Val	Lys	Thr	His	Cys
•	275			115					120					125			
-	277	Pro	Pro	Cys	Asn	Pro	Gly	Phe	Phe	Lys	Thr	Asn	Asn	Ser	Thr	Cys	Gln
•	278		130					135					140				
:	280	Pro	Cys	Pro	Tyr	Gly	Ser	Tyr	Ser	Asn	Gly	Ser	Asp	Cys	Thr	Arg	Cys
•	281	145					150					155					160
:	283	Pro	Ala	Gly	Thr	Glu	Pro	Ala	Val	Gly	Phe	Glu	Tyr	Lys	\mathtt{Trp}	Trp	Asn
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	286	Thr	Leu	Pro	Thr	Asn	Met	Glu	Thr	Thr	Val	Leu	Ser	Gly	Ile	Asn	Phe
	287				180					185					190		
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	290			195					200					205			
	292	Thr	Ala	Ala	Gly	Ala	Ser	Asp	Asn	Asp	Phe	Met	Ile	Leu	Thr	Leu	Val
	293		210					215			_		220	_	_,	~ 3	_
	295	Val	Pro	Gly	Phe	Arg		Pro	Gln	Ser	Val	Met	Ala	Asp	Thr	GIu	Asn
	296	225					230			_		235	1	_	~	a	240
		Lys	Glu	Val	Ala		Ile	Thr	Phe	Val	Phe	Glu	Thr	ьeu	Cys	ser	val
	299					245				~1	250		G	3	mh.ss	255	Πh∞
		Asn	Cys	Glu	Leu	Tyr	Phe	Met	Val	GIY	vaı	Asn	ser	Arg	270	ASII	TIIT
	302			_	260		_	-3		265	a1	T	<i>a</i> 1 n	Com		Πh~	Фът∽
		Pro	Val		Thr	Trp	гàг	GIY		ьуѕ	GIY	цуѕ	GIII	285	тут	1111	1 Y 1
	305		_ •	275	~ 1	•	ml	m1	280	000	Dho	mh ~	T ~~		Dho	Gln	Δra
		Ile		GLu	Glu	Asn	Tnr		THE	ser	Pile	1111	300	AIG	FIIC	GIII	nry
	308	1 ·	290	Dh.	TT	61	x 1 -	295	7 ~~	Tvc	Птег	Thr		Δsn	Va1	Δla	Lys
				Pne	HIS	GIU	310	261	ALG	пуз	1 y 1	315	11011	1100	, 41		320
	311	305	m	Cor	Ile	λen		Thr	Δcn	Va1	Met		Glv	Val	Ala	Ser	
		тте	TAT	ser	116	325	Vai	1111	ASII	V 44 ±	330		0-1			335	- 4
	314	Cvc	λνα	Dro	Cve		T.e.11	Glu	Δla	Ser			Glv	Ser	Ser	Cys	Thr
	317	Cys	пта	110	340	1114	200	4 _u		345			-		350	-	
	310	Sar	Cvs	Pro		Glv	Тvr	Tvr	Ile	Asp	Arq	Asp	Ser	Gly	Thr	Cys	His
	320	DCI	Cys	355		01	-1-	- 1 -	360			•		365			
	320	Ser	Cvs	Pro	Pro	Asn	Thr	Ile			Ala	His	Gln	Pro	Tyr	Gly	Val
	323	001	370					375		•			380		_		
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		385		-1-			390	_		_		395					400
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	329			-	•	405		_			410					415	
	331	Thr	Phe	Asn	Tyr	Asn	Phe	Ser	Ala	Leu	Ala	Asn	Thr	Val	Thr	Leu	Ala
	332				420					425					430		
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	337	Thr	Leu	Ser	Leu	Cys	Gly	Asn	Gln	Gly	Arg	Lys	Met	Ser	Val	Cys	Thr
	338		450					455					460				

Use of a radior Max has been deterred in the federance Listing, Rest: with 6 cquence Using to incure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or X22.

VERIFICATION SUMMARY

DATE: 01/28/2002 TIME: 13:44:35

PATENT APPLICATION: US/10/046,433

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L:867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
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L:1166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
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> HARDA AL BS 4 V, CAR C